

**RWANDA
STANDARD**

**DRS
16-2**

Second edition

2017-mm-dd

Fruit-based soft drinks — Specification

Part 2:

Comminuted fruit-based soft drinks



Reference number

DRS 16-2:2017

© RSB 2017

In order to match with technological development and to keep continuous progress in industries, standards are subject to periodic review. Users shall ascertain that they are in possession of the latest edition

© RSB 2017

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without prior written permission from RSB.

Requests for permission to reproduce this document should be addressed to:

Rwanda Standards Board

P.O Box 7099 Kigali-Rwanda

KK 15 Rd, 49

Tel. +250 252 586103/582945

Toll Free: 3250

E-mail: info@rsb.gov.rw

Website: www.rsb.gov.rw

Contents		Page
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Requirements	2
4.1	General requirements	2
4.2	Compositional requirements	2
5	Food additive	3
6	Hygiene	3
7	Contaminants	3
7.1	Pesticides residues	3
7.2	Other Contaminants	4
8	Packaging	4
9	Labelling	4
10	Sampling	5

Foreword

Rwanda Standards are prepared by Technical Committees and approved by Rwanda Standards Board (RSB) Board of Directors in accordance with the procedures of RSB, in compliance with Annex 3 of the WTO/TBT agreement on the preparation, adoption and application of standards.

The main task of technical committees is to prepare national standards. Final Draft Rwanda Standards adopted by Technical committees are ratified by members of RSB Board of Directors for publication and gazettment as Rwanda Standards.

RS 16-2 was prepared by Technical Committee RSB/TC 001, *Beverages*.

In the preparation of this standard, reference was made to the following standard:

KS 05- 328, *Fruit based soft drinks: part 1 and 2 – Specification*

The assistance derived from the above source is hereby acknowledged with thanks.

This second edition cancels and replaces the first edition (RS 16-2: 2004) which has been technically revised.

RS 16 consists of the following parts, under the general title *Fruit-based soft drinks — Specification*:

— *Part 1: Soft drinks with Fruit Juice*

— *Part 2: Comminuted fruit based soft drinks*

Committee membership

The following organizations were represented on the Technical Committee on Beverages (RSB/TC 001) in the preparation of this standard.

AFRICAN BAFFALO GIN

Enterprise URWIBUTSO

Imbaraga Zibimera Health Center (IHC Ltd)

IMPANO Products Ltd

SALUNA Company Ltd

SPERANZA Group Ltd

University of Rwanda, College of Agriculture, Animal sciences and Veterinary medicine (UR-CAVM)

Rwanda Standards Board (RSB) – Secretariat

Copy for public comments

Fruit-based soft drinks — Specification — Part 2: Comminuted fruit-based soft drinks

1 Scope

This Draft Rwanda Standard specifies the requirements and methods of sampling and test for comminuted fruit-based soft drinks intended for human consumption.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

RS 16-1, *Fruit-based soft drinks — Specification — Part 1: Soft drinks with fruit juice*

RS CAC/RCP 1, *Code of practice — General Principles of Food Hygiene*

3 Terms and definitions

For the purposes of this standard, the following terms and definitions apply.

3.1

comminuted fruit juices

beverages composed of fruit juice and any other edible crushed fruit part or fruit extract

3.2

soft drink

drink that either contains carbonated or non-carbonated water, permitted sweeteners and a natural or artificial flavouring

3.3

fruit juice

unfermented but fermentable liquid obtained from the edible part of sound, appropriately mature and fresh fruit or of fruit maintained in sound condition by suitable means including post-harvest surface treatment

3.4

food grade packaging material

packaging material, made of substances which are safe and suitable for their intended use and which will not impart any toxic substance or undesirable odour or flavour to the product

4 Quality requirements

4.1 General requirements

Comminuted fruit-based soft drinks shall:

- a) be free from any extraneous matter;
- b) be free from any substances injurious to health;
- c) be free from foreign material such as grit and dirt particularly flavouring agents, if used, in accordance with CAC/GL 66;
- d) possess characteristic taste and flavour and shall be free from heavy metals in amounts which may represent a hazard to human health; and
- e) be free from any signs of fermentation and shall be free from damage caused by insects and diseases.

4.2 Compositional requirements

Comminuted fruit-based soft drinks shall comply with the compositional requirements specified in Table 1.

Table1 — Compositional requirements for comminuted fruit-based soft drinks

S/N	Characteristic	Requirement	Method of test
1.	Brix, min	10	Annex A
2.	pH,	2.4-5.8	AOAC 940.19
3.	Fructose, % min	3.5	RS EAS 104
4.	Glucose, % m/m min	0.5	
5.	Total Acidity as anhydrous citric-acid, % m/m max.	0.25	
6.	Sucrose, % m/m	5.0-9.0	
7.	Malic acid, % m/m max	0.25	

5 Food additive

Food additives permitted by RS CODEX STAN 192 and existing national laws that may be used include but are not limited to the following:

- a) colourants;
- b) antifoaming agents;
- c) emulsifiers and stabilizers;
- d) flavouring agents;
- e) flavour enhancers;
- f) preservatives;
- g) sweeteners – natural and synthetic.

6 Hygiene

6.1 Comminuted fruit-based soft drinks shall be processed, packaged, stored and distributed under hygienic conditions prescribed in the RS CAC/RCP 1.

6.2 When tested by appropriate methods of sampling and analysis, soft drinks with fruit juice shall be free from microorganisms in amounts which may represent a hazard to health and shall meet the requirements in Table 2.

Table 2 — Microbiological limits for comminuted fruit-based soft drinks

S/N	Characteristic	Requirements	Method of Test
1.	Total viable counts, CFU/ml, max	10 ²	RS ISO 4833-1
2.	<i>E. coli</i> , CFU/ml, max	Absent	RS ISO 16649-1
3.	<i>Salmonella</i> , CFU per 25 ml max	Absent	RS ISO 6579
4.	<i>Staphylococcus aureus</i> , CFU/ml, max	Absent	RS ISO 6888-1
5.	Yeast and moulds, CFU/ml, max	100	RS ISO 21527-1-2

7 Contaminants

7.1 Pesticides residues

The products covered by the provisions of this Standard should comply with those maximum residue limits for pesticides established by the Codex Alimentarius Commission for these products.

7.2 Other Contaminants

Comminuted fruit-based soft drinks shall not contain metal contaminants in excess of the limits indicated in Table 3.

Table 3 — Metal contaminants in comminuted fruit-based soft drinks

S/N	Characteristic	Maximum limits, mg/l	Test method
1.	Arsenic, As	0.1	ISO 17239
2.	Lead, Pb	0.2	AOAC 979.17
3.	Copper, Cu	1.5	ISO 7952
4.	Mercury, Hg	0.05	ISO6637
5.	Zinc , Zn	5.0	ISO 6636-2
6.	Tin, Sn	250	RS ISO 17240

8 Packaging

Comminuted fruit-based soft drinks shall be packaged in in food grade packaging materials that shall not affect the quality of the product.

9 Labelling

In addition to the requirements specified in RS EAS 38, labelling of comminuted fruit-based soft drinks shall include the following:

- a) name of the product “Comminuted fruit-based soft drink”;
- b) name, address and physical location of the manufacturer;
- c) list of ingredients;
- d) batch number;
- e) date of manufacture;
- f) net contents;
- g) country of origin or the declaration ‘made in Rwanda’ for locally manufactured products;
- h) expiry date.

10 Sampling

Each container of comminuted fruit-based soft drink sampled at random shall constitute a sample for purpose of testing.

Copy for public comments

Copy for public comments